

Water-soluble heparin type chitosan sulfanilamide anticoagulation agent

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Abstract

A water-soluble heparin-type chitosan sulfanilamide as anticoagulant (SCS) is prepared from purified chitosamine or the chitosamine after direct deacylation as raw material, urea and fuming sulfuric acid as sulfonating agent, and one quaternary ammonium salt as phase-transfer catalyst through sulfonating reaction to obtain SCS, as well as deformed chitosamine with high bioactivity. Its advantages include simple process, lower cost and no environmental pollution.

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